Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5	wo-200016810-\$.did. or wo-2002032421-\$.did. or "6733744".pn. or wo-9847538-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2005/09/01 11:02
L2	7	wo-200016810-\$.did. or wo-2002032421-\$.did. or "6733744".pn. or wo-9847538-\$.did. or wo-9852609-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2005/09/01 11:02
S2	2	"20040022731".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2005/09/01 11:01
S3	2	"20040028611".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2005/08/31 17:12
S4	596	tricarbocyanin\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2005/08/31 17:12
S5	571	S4 and dye	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND .	ON	2005/08/31 17:12
S6	216	S5 and fluorescent	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2005/08/31 17:12
S7	515	S4 same dye	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON .	2005/08/31 17:12
S8	186	S7 and fluorescent	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2005/08/31 17:21
S9		"6086737".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2005/08/31 17:29

S10	2	wo-9852609-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2005/08/31 19:31
S11	103	S4 and succinim\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2005/08/31 18:15
S12	103	S5 and succinim\$	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2005/08/31 18:50
S13	2	"5242680".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2005/08/31 19:01
S14	2	"6306628".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2005/08/31 19:14
S15	5	"3337583".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2005/08/31 19:14
S16	2	"3337583".pn.	USPAT; USOCR	AND	ON	2005/08/31 19:14
S17	1	wo-200016810-\$.did.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	AND	ON	2005/09/01 11:01
S18	1	2000-317296.NRAN.	DERWENT	AND	ON	2005/08/31 19:32

```
(FILE 'HOME' ENTERED AT 10:44:22 ON 01 SEP 2005)
```

L9 L10		'REGISTRY' ENTERED AT 10:44:26 ON 01 SEP 2005 STRUCTURE UPLOADED 110 SEA SSS FUL L4 40 SEA SUB=L8 SSS FUL L3 0 SEA SUB=L8 SSS FUL L6 6 SEA SUB=L11 SSS FUL L6
		'HCAPLUS' ENTERED AT 10:49:19 ON 01 SEP 2005  8 SEA PLU=ON L9  8 SEA PLU=ON L11  1 SEA PLU=ON L13 AND L14  15 SEA PLU=ON L13 OR L14  14 SEA PLU=ON L16 AND (PD<20030129 OR PRD<20030129)  13 SEA PLU=ON L16 AND (PD<20030124 OR PRD<20030124)  D L18 1-13 IBIB HITSTR
	DEL	'MARPAT' ENTERED AT 10:53:26 ON 01 SEP 2005 0 DHIS 0 SEA SSS SAM L1 10 SEA SSS FUL L1 D L20 1-10 IBIB IDE

## FILE HOME

## FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 31 AUG 2005 HIGHEST RN 862246-83-1 DICTIONARY FILE UPDATES: 31 AUG 2005 HIGHEST RN 862246-83-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer

to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

### FILE HCAPLUS

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FILE COVERS 1907 - 1 Sep 2005 VOL 143 ISS 10 FILE LAST UPDATED: 31 Aug 2005 (20050831/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE MARPAT

FILE CONTENT: 1988-PRESENT (VOL 143 ISS 09) (20050826/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES (COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6903214 07 JUN 2005
DE 10350965 25 MAY 2005
EP 1538192 08 JUN 2005
JP 2005136379 26 MAY 2005
WO 2005060437 07 JUL 2005

Expanded G-group definition display now available.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
H:\STN queries\10762582x3.str
chain nodes :
    10 11 15
                 16
                     26
                         27
                              28
                                  30
                                      31
                                           32
                                               33
```

```
ring nodes :
   1 2 3 4
                     7
               5
                       8
                          9
                             12
                                 13
                                     14
                                         17
                                            18
                                                19
                                                    20
                                                        21
                                                            22
                                                               23
                                                                       25
   39 40 41
chain bonds :
   2-32 8-10 9-30 10-11
                          11-12 14-15
                                        15-16 16-18 17-33
                                                            23-36
                                                                   26-27
   26-28 30-31 33-35
ring bonds :
   1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9 12-13 12-39 13-14
   14-41 17-21 17-18 18-19 19-20 20-21 20-22 21-25
                                                         22-23
   39-40
          40-41
exact/norm bonds :
   1-2 1-6 2-3 2-32
                       3-4 4-5 4-7 5-6 5-9 7-8 8-9
                                                         8-10 9-30 10-11
   11-12
          12-13
                12-39
                       13-14 14-15 14-41 15-16 16-18
                                                         17-21 17-18 17-33
                             21-25 22-23 23-24 23-36
   18-19
          19-20
                 20-21
                       20-22
                                                        24-25
                                                               26-27 26-28
   30-31
          33-35
                 39-40
                       40 - 41
G1:H,S
G2:0,S,[*1]
Match level :
   1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
   10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS
   17: Atom 18: Atom 19: Atom 20: Atom 21: Atom 22: Atom 23: Atom 24: Atom
   25:Atom 26:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS
   33:CLASS 35:CLASS 36:CLASS 39:Atom 40:Atom 41:Atom
Generic attributes :
   27:
   Type of chain
                         : Linear
   Number of Carbon Atoms : less than 7
```

```
H:\STN queries\10762582x2.str
chain nodes :
   10 11 15
                16 26
                         27
                             28
                                 30
                                     31
                                          32
                                              33
                                                  35
                                                      36
```

```
ring nodes :
    1 2 3 4
                                    12
                                         13
                                             14
                                                  17
                                                       18
                                                            19
                                                                20
                                                                    21
                                                                          22 23
    43 44 45
chain bonds :
    2-32 8-10 9-30 10-11 11-12 14-15
                                                  15-16
                                                         16-18
                                                                  17-33
    26-28 30-31 33-35
ring bonds :
    1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9 12-13 12-43 13-14
    14-45 17-21 17-18 18-19 19-20 20-21 20-22 21-25 22-23 23-24 24-25
    43 - 44
            44 - 45
exact/norm bonds :
                             3-4 4-5 4-7 5-6 5-9 7-8 8-9
13-14 14-15 14-45 15-16 16-18
20-22 21-25 22-23 23-24 23-36
    1-2 1-6 2-3 2-32
                                                                      8-10 9-30 10-11
17-21 17-18 17-33
            12-13
                    12-43
    18-19 19-20
                    20-21
                                                                      24-25 26-27 26-28
    30-31 33-35
                   43-44
                            44-45
G1:H,S
G2:0,S,[*1]
Match level :
    1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
    10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS
    17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 35:CLASS 36:CLASS 43:Atom 44:Atom 45:Atom
Generic attributes :
```

: Linear

Number of Carbon Atoms : less than 7

27:

28:

Type of chain

Type of chain : Linear Number of Carbon Atoms : less than 7

•

.

•

```
H:\STN queries\10762582x6.str
```

```
ring nodes :
   1 2 3 4
                              12
                                 13
                                     14
                                         17
                                             18
                                                 19
                                                     20
                                                         21
                                                             22
                                                                23
                                                                    24
                                                                        25
    43 44
           45
chain bonds :
   2-32 8-10 9-30 10-11 11-12 13-39 14-15 15-16
                                                      16-18
                                                             17-33
   26-27 26-28 30-31
                       33-35
                             39-40
                                    40 - 41
ring bonds :
   1-2 1-6 2-3 3-4 4-5 4-7 5-6
                                    5-9 7-8 8-9 12-13 12-43 13-14
   14-45 17-21 17-18 18-19 19-20
                                     20-21 20-22 21-25
                                                          22-23 23-24
   43 - 44
          44-45
exact/norm bonds :
                        3-4 4-5 4-7
                                     5-6 5-9 7-8 8-9 8-10 9-30 10-11
   1-2 1-6 2-3 2-32
                                           14-45 15-16
22-23 23-24
43-44 44-45
                 12-43
                        13-14 13-39
                                     14-15
   11-12
          12-13
                                                         16-18 17-21 17-18
   17-33
          18-19
                 19-20
                        20-21
                              20-22
                                     21-25
                                                          23-36 24-25
                             40-41
   26-28
          30-31
                 33-35
                        39-40
                                     40 - 42
G1:H,S
G2:0,S,[*1]
Match level :
   1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
   10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS
   17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom
   25:Atom 26:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS
   33:CLASS
            35:CLASS 36:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS
    43:Atom 44:CLASS 45:CLASS
Generic attributes :
   27:
   Type of chain
                        : Linear
```

chain nodes : 10 11 15

16

26

Number of Carbon Atoms : less than 7

27

28

30

31

32

33

35

36

39

40

41

42

```
H:\STN queries\10762582X7.str
```

```
chain bonds :
   2-32 8-10 9-30 10-11
                          11-12 13-46 14-15 15-16 16-18
                                                             17-33
   26-27 26-28 30-31
                      33-35 46-47
                                    47-48 47-49
ring bonds :
   1-2 1-6 2-3 3-4 4-5 4-7 5-6
                                   5-9 . 7-8 8-9 12-13 12-43
   14-45 17-21
                      18-19 19-20
               17-18
                                    20-21 20-22 21-25
                                                         22-23
   43-44
         44-45
exact/norm bonds :
                                     5-6 5-9 7-8 8-9 8-10 9-30 10-11
   1-2 1-6 2-3 2-32
                       3-4 4-5 4-7
   11-12
          12-13
                12-43
                       13-14 13-46 14-15
                                          14-45 15-16
                                                        16-18 17-21 17-18
   17-33
          18-19
                 19-20
                       20-21
                              20-22
                                     21-25 · 22-23 23-24
                                                         23-36 24-25
                             20-22
44-45
   26-28
          30-31
                 33-35
                       43 - 44
                                     46-47 47-48
                                                 47-49
G1:H,S
G2:0,S,[*1]
Match level :
   1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
   10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS
   17: Atom 18: Atom 19: Atom 20: Atom 21: Atom 22: Atom 23: Atom 24: Atom
   25:Atom 26:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS
            35:CLASS
                     36:CLASS 43:Atom 44:Atom 45:Atom 46:CLASS 47:CLASS
   33:CLASS
            49:CLASS
   48:CLASS
Generic attributes :
   27:
   Type of chain
                         : Linear
   Number of Carbon Atoms : less than 7
```

chain nodes :

ring nodes :

10 11 15

1 2 3 4

43 44 45

26

16

27

8

28

9

30

12

31

13

32

14

33

17

35

18

36

19

46

21

22

20

49

24

25

23

. . . . . 28:

```
H:\STN queries\10762582x11.str
```

```
chain nodes :
   10 11 15
               16 26
                       27
                           28
                               30
                                   31
                                       32
                                           33
                                              35
                                                  36, 39
                                                          40
                                                              41
                                                                      43
ring nodes :
    1 2 3 4
                  6. 7
                                  13
                                          17
                        8
                              12
                                      14
                                              18
                                                 19
                                                     20
                                                         21
                                                                 23
                                                             22
                                                                     24
                                                                         25
    44 45 46
               47 48 49
                           50
                              51
                                   52
    2-32 8-10 9-30 10-11 11-12 13-43 14-15 15-16 16-18 17-33
    26-27 26-28 30-31
                       33-35 39-40 39-47 40-41 40-42
ring bonds :
    1-2 1-6 2-3 3-4 4-5 4-7 5-6
                                    5-9 7-8 8-9
                                                   12-13 12-50
                                                                 13-14
    14-52 17-21 17-18
                       18-19 19-20
                                     20-21 20-22
                                                          22-23
                                                   21~25
                                                                 23-24. 24-25
   44 - 45
          44-49
                 45-46
                       46-47
                             47-48
                                     48-49
                                            50-51
                                                   51-52
exact/norm bonds :
    1-2 1-6 2-3
                 2-32
                        3-4 4-5 4-7
                                      5-6
                                           5-9 7-8 8-9
                                                          8-10 9-30 10-11
    11-12
          12-13
                 12-50
                        13-14
                               13-43
                                      14-15
                                            14-52 15-16
                                                                17-21
                                                          16-18
                                                                       17-18
    17-33
          18-19
                 19-20
                        20-21
                               20-22
                                      21-25
                                             22-23
                                                   23-24
                                                          23-36
                                                                 24 - 25
                        39-40 39-47
   26-28
          30-31
                 33-35
                                      40 - 41
                                            40-42
                                                   43-44
                                                          50-51
normalized bonds :
    44-45
          44 - 49
                45-46
                       46-47 47-48
                                     48 - 49
G1:H,S
```

G2:0,S,[\*1]

Match level : 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 26:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS 35:CLASS 36:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS 25:Atom 33:CLASS 44:Atom 45:Atom 46:Atom 47:Atom 48:Atom 49:Atom 50:Atom 43:CLASS 51:Atom · 52:Atom

Generic attributes :

Type of chain : Linear

Number of Carbon Atoms : less than 7

```
H:\STN queries\10762582x10.str
```

```
10 11 15
               16
                   26
                       27
                           28
                               30
                                   31
                                       32
                                           33
                                               35
                                                   36
                                                       43
                                                               45
                                                                   46
                                                                       47
ring nodes :
   1 2 3 4
                  6
                        8
                           9
                              12
                                  13
                                      14
                                          17
                                              18
                                                  19
                                                      20
                                                          21
                                                              22
                                                                  23
                                                                      24
                                                                          25
           50
               51
                  52
                       53
   48 49
                           54
                                   56
                              55
chain bonds :
   2-32 8-10 9-30 10-11
                           11-12
                                  13-47 14-15 15-16 16-18 17-33
   26-27 26-28 30-31
                       33-35 43-44 43-51 44-45 44-46
                                                           47 - 48
ring bonds :
   1-2 1-6 2-3 3-4
                       4-5 4-7 5-6
                                     5-9 7-8 8-9 12-13
                                                           12-54
                                      20-21 20-22
   14-56 17-21 17-18
                       18-19 19-20
                                                    21-25
                                                           22-23
                49-50
   48 - 49
                       50-51
          48-53
                               51-52
                                      52-53 54-55
                                                    55-56
exact/norm bonds :
   1-2 1-6 2-3 2-32
                        3-4 4-5 4-7
                                      5-6
                                            5-9 7-8 8-9
                                                           8-10
                                                                 9-30 10-11
                                            14-56 15-16
   11-12
          12-13
                 12-54
                        13-14 13-47
                                      14-15
                                                                 17-21
                                                           16-18
                                                                        17-18
                        20-21
   17-33
          18-19
                 19-20
                               20-22
                                      21-25
                                             22-23
                                                    23-24
                                                           23-36
                                                                  24-25
                                                                         26-27
   26-28
          30-31
                 33-35
                        43 - 44
                               43-51
                                      44-45
                                            44-46
                                                    47-48
                                                           54-55
                                                                  55-56
normalized bonds :
   48-49 48-53
                49-50
                       50-51
                               51-52
                                      52-53
```

G1:H,S

1 4 4 1 1 C

G2:0,S,[\*1]

chain nodes :

Match level:
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS
 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom
 25:Atom 26:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS
 33:CLASS 35:CLASS 36:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS
 47:CLASS 48:Atom 49:Atom 50:Atom 51:Atom 52:Atom 53:Atom 54:Atom
 55:Atom 56:Atom

Generic attributes:

Type of chain : Linear

Number of Carbon Atoms : less than 7

```
H:\STN queries\10762582x14.str
chain nodes :
    10 11 15
                 16
                     26
                          27
                              28
                                  30
                                       31
                                           32
                                                33
                                                    35
                                                        36
                                                             43
ring nodes :
    1 2 3 4
                                  12
                                      13
                                          14
                                               17
                                                   18
                                                       19
                                                            20
                                                                21
                                                                    22
                                                                         23
                                                                                  25
    44 45 46
```

```
2-32 8-10 9-30 10-11 11-12
                                      13-43
                                              14-15
                                                      15-16
                                                              16-18
                                                                     17-33
    26-27 26-28 30-31
                          33-35
ring bonds :
    1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9 12-13 12-44
    14-46 17-21 17-18 18-19 19-20 20-21 20-22
                                                         21-25
                                                                 22-23
                                                                         23-24
    44 - 45
           45-46
exact/norm bonds :
                           3-4 4-5 4-7 5-6 5-9 7-8 8-9
13-14 13-43 14-15 14-46 15-16
20-21 20-22 21-25 22-23 23-24
    1-2 1-6 2-3 2-32
                                                                 8-10 9-30 10-11
    11-12
           12-13
                   12 - 44
                                                                 16-18
                                                                       17-21 17-18
    17-33
           18-19
                   19-20
                          20-21
                                                                 23-36 24-25
                          44-45 45-46
    26-28
           30-31
                   33-35
G1:H,S
G2:0,S,[*1]
Match level :
    1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
    10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS
             18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 26:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS
    17:Atom
    33:CLASS 35:CLASS 36:CLASS 43:CLASS
                                              44:Atom 45:Atom 46:Atom
Generic attributes :
    27:
    Type of chain
                             : Linear
    Number of Carbon Atoms : less than \cdot 7
```

```
(FILE 'HOME' ENTERED AT 10:00:59 ON 01 SEP 2005)
```

```
FILE 'REGISTRY' ENTERED AT 10:02:08 ON 01 SEP 2005
L1
                STRUCTURE UPLOADED
L2
                STRUCTURE UPLOADED
L3
                STRUCTURE UPLOADED
L4
              · STRUCTURE UPLOADED
L5
                STRUCTURE UPLOADED
L6
                STRUCTURE UPLOADED
L7
             11 SEA SSS SAM L3
\Gamma8
            141 SEA SSS FUL L3
L9
             77 SEA SUB=L8 SSS FUL L2
L10
              6 SEA SUB=L9 SSS FUL L5
              0 SEA SUB=L8 SSS FUL L1
L11
L12 ·
              O SEA SUB=L9 SSS FUL L6
                STRUCTURE UPLOADED
L13
L14
              O SEA SUB=L8 SSS FUL L13
                D L10 1-6 IDE
     FILE 'HCAPLUS' ENTERED AT 10:18:33 ON 01 SEP 2005
              1 SEA PLU=ON L10
L15
                D L15
             35 SEA PLU=ON L9
L16
                D L16 30-35 IBIB HITSTR
                D L16 25-29 IBIB HITSTR
     FILE 'MARPAT' ENTERED AT 10:20:52 ON 01 SEP 2005
L17
             92 SEA SSS FUL L3
L*** DEL
              0 S L5 SAM
L18
             11 SEA SSS FUL L5
L19
              2 SEA SSS SAM L3
L20
             92 SEA SSS FUL L3
                D L18 1-3 IBIB
                D L18 9-11 IBIB IDE
                D L18 1-8 IBIB IDE
                D L20 1-5 IBIB
                D L20 5-10 IBIB
                D L20 11-20 IBIB
L21
              O SEA PLU=ON L20 AND (PD<20030129 OR PRD<20030129)
L22
              O SEA PLU=ON L20 AND PY<2004
                D L20 21-25 IBIB
                D L20 24 IBIB IDE
                D L20 26-30 IBIB IDE
```

# FILE HOME

# FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 31 AUG 2005 HIGHEST RN 862246-83-1 DICTIONARY FILE UPDATES: 31 AUG 2005 HIGHEST RN 862246-83-1

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting  ${\tt SmartSELECT}$  searches.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* The CA roles and document type information have been removed from \* the IDE default display format and the ED field has been added, \* effective March 20, 2005. A new display format, IDERL, is now \* available and contains the CA role and document type information. \*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

### FILE HCAPLUS

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FILE COVERS 1907 - 1 Sep 2005 VOL 143 ISS 10 FILE LAST UPDATED: 31 Aug 2005 (20050831/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE MARPAT

FILE CONTENT: 1988-PRESENT (VOL 143 ISS 09) (20050826/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES (COVERAGE TO THESE DATES IS NOT COMPLETE):

US 6903214 07 JUN 2005
DE 10350965 25 MAY 2005
EP 1538192 08 JUN 2005
JP 2005136379 26 MAY 2005
WO 2005060437 07 JUL 2005

Expanded G-group definition display now available.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
chain nodes :
   10 11 12
                13
                   14
                        15
                            16
                                26
                                    27
                                       28 30
                                                 31
                                                     32
                                                         33
ring nodes :
   1 2 3 4
                      7
                               17
                   6
                         8
                            9
                                   18
                                      19
                                           20
                                                21
                                                    22
                                                        23
                                                            24
                                                                25
```

H:\STN queries\10762582x4.str

```
chain bonds :
   2-32 8-10 9-30 10-11 11-12 12-13 13-14 14-15 15-16 16-18
                                                                  17-33
   23-36 26-27 26-28
                      30-31 33-35
ring bonds :
   1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9 17-21
                                                       17-18 18-19
   19-20 20-21 20-22 21-25 22-23 23-24 24-25
exact/norm bonds :
   1-2 1-6 2-3 2-32
                      3-4 4-5 4-7 5-6 5-9 7-8 8-9
                                                        8-10 9-30 10-11
   11-12 12-13 13-14
                       14-15 15-16 16-18 17-21 17-18
                                                       17-33 18-19 19-20
         20-22
                21-25
                      22-23 23-24 23-36 24-25 26-27
                                                       26-28 30-31 33-35
G1:H,S
G2:0,S,[*1]
Match level :
   1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
   10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS
   17: Atom 18: Atom 19: Atom 20: Atom 21: Atom 22: Atom 23: Atom 24: Atom
   25:Atom 26:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS
   33:CLASS 35:CLASS 36:CLASS
Generic attributes :
   27:
   Type of chain
                         : Linear
   Number of Carbon Atoms : less than 7
   28:
   Type of chain
                         : Linear
   Number of Carbon Atoms : less than 7
```

```
chain nodes :
    10 11 12
                 13
                    14
                         15
                             16
                                  26
                                      27
                                          28
                                               30
                                                   31
                                                       32
                                                           33
ring nodes :
    1 2 3 4
                          8
                             9
                                 17
                                     18
                                         19
                                             20
                                                  21
                    6
                                                      22
                                                          23
                                                               24
                                                                   25
chain bonds :
```

H:\STN queries\10762582x1.str

```
2-32 8-10 9-30 10-11 11-12 12-13 13-14 14-15 15-16 16-18
                                                                  17-33
   23-36 26-27 26-28 30-31 33-35
ring bonds :
   1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-9 7-8 8-9 17-21
                                                        17-18
                                                              18-19
   19-20 20-21 20-22 21-25 22-23 23-24 24-25
exact/norm bonds :
   1-2 1-6 2-3 2-32
                      3-4 4-5 4-7 5-6 5-9 7-8 8-9
                                                        8-10 9-30 10-11
   11-12 12-13 13-14
                       14-15 15-16 16-18 17-21 17-18
                                                        17-33 18-19 19-20
                      22-23 23-24 23-36 24-25 26-27
   20-21
         20-22 21-25
                                                        26-28 30-31 33-35
G1:H,S
G2:0,S,[*1]
Match level :
   1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
   10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS
   17: Atom 18: Atom 19: Atom 20: Atom 21: Atom 22: Atom 23: Atom 24: Atom
   25:Atom 26:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS
   33:CLASS 35:CLASS 36:CLASS
Generic attributes :-
   27:
   Type of chain
                         : Linear
   Number of Carbon Atoms : less than 7
   28:
   Type of chain
                         : Linear
   Number of Carbon Atoms : less than 7
```

```
H:\STN queries\10762582x5.str
```

```
42
ring nodes :
                      8
                         9
                            17
   1 2 3 4
                 6
                                18
                                   19
                                       20
                                          21
                                              22
                                                  23
                                                     24
                                                         25
chain bonds :
   2-32 8-10 9-30 10-11 11-12
                               12-13 13-14 13-39 14-15 15-16 16-18
   17-33 23-36 26-27
                     26-28
                            30-31
                                  33-35 39-40 40-41 40-42
ring bonds :
                                   5-9 7-8 8-9 17-21 17-18
   1-2 1-6 2-3 3-4 4-5 4-7 5-6
   19-20 20-21 20-22 21-25 22-23
                                  23-24 24-25
exact/norm bonds :
   1-2 1-6 2-3 2-32
                      3-4 4-5 4-7 5-6 5-9 7-8 8-9 8-10 9-30 10-11
                      11-12 12-13
19-20 20-21
               13-14
   19-20
         20-21
                20-22
   33-35
         39-40
               40 - 41
                      40-42
G1:H,S
G2:0,S,[*1]
Match level :
   1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
   10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS
   17: Atom 18: Atom 19: Atom 20: Atom 21: Atom 22: Atom 23: Atom 24: Atom
   25:Atom 26:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS
   33:CLASS 35:CLASS 36:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS
Generic attributes :
   27:
   Type of chain
                        : Linear
   Number of Carbon Atoms : less than 7
   28:
   Type of chain
                        : Linear
```

chain nodes :

10 11 12

13 14

15

16

26

27

28

30

31

32

33

35

36

39 40 41

Number of Carbon Atoms : less than 7

```
H:\STN queries\10762582x8.str
```

```
ring nodes :
   1 2 3 4
                       8
                          9
                             17
                                 18
                                    19
                                        20
                                            21
                                                22
                  6
                                                   23
                                                       24
                                                           25
chain bonds :
   2-32 8-10 9-30 10-11
                          11-12 12-13
                                        13-14
                                              13-43 14-15 15-16 16-18
   17-33 23-36 26-27
                      26-28 30-31
                                   33-35 43-44
                                                44-45 44-46
ring bonds :
   1-2 1-6 2-3 3-4 4-5 4-7
                               5-6
                                    5-9 7-8
                                             8-9
                                                  17-21 17-18
   19-20 20-21 20-22 21-25 22-23
                                    23-24 24-25
exact/norm bonds :
                      3-4 4-5 4-7
   1-2 1-6 2-3
                 2-32
                                    5-6
                                         5-9 7-8 8-9
                                                        8-10 9-30
                                                                   10-11
   11-12
                      13-43 14-15 15-16 16-18 17-21
          12-13 13-14
                                                        17-18 17-33 18-19
   19-20
          20-21
                20-22
                       21-25
                             22-23 23-24 23-36 24-25
                                                        26-27
                                                               26-28
               44-45
         43-44
                      44-46
   33-35
G1:H,S
G2:0,S,[*1]
Match level :
   1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
   10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS
   17: Atom 18: Atom 19: Atom 20: Atom 21: Atom 22: Atom 23: Atom 24: Atom
   25:Atom 26:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS
   33:CLASS 35:CLASS 36:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS
Generic attributes :
   27:
    Type of chain
                         : Linear
   Number of Carbon Atoms : less than 7
   28:
   Type of chain
                         : Linear
```

chain nodes : 10 11 12

46

13

14

15

16

26

27

28

30

31

32

33

35

36

43

44

Number of Carbon Atoms : less than 7

```
H:\STN queries\10762582x9.str
```

```
10 11
           12
               13
                   14
                       15
                           16
                               26
                                   27
                                       28
                                           30
                                              31
                                                   32
                                                      33
                                                          35
                                                                  43
                                                                      44
                                                                          45
    46 47
ring nodes :
   1 2 3 4
                        8
                           9
                              17
                                  18
                                      19
                                          20
                                             21
                                                 22
                                                     23
                                                         24
                                                                         50
                                                             25
                                                                 48
                                                                     49
    51 52 53
chain bonds :
    2-32 8-10 9-30 10-11 11-12 12-13 13-14 13-47 14-15 15-16
                                                                     16-18
                       26-28
                              30-31
                                      33-35 43-44
   17-33 23-36 26-27
                                                  43-51
                                                         44-45
                                                                 44-46 47-48
ring bonds :
    1-2 1-6 2-3 3-4 4-5 4-7 5-6
                                    5-9 7-8 8-9
                                                    17-21
                                                           17-18
                                                                 18-19
    19-20 20-21 20-22 21-25 22-23 23-24 24-25 48-49 48-53 49-50 50-51
    51-52
          52-53
exact/norm bonds :
                        3 - 4
                            4-5 4-7
                                           5-9 7-8 8-9
    1-2 1-6 2-3
                  2-32
                                      5-6
                                                          8-10 9-30
                                                                     10-11
    11-12
          12-13
                 13-14
                        13-47
                               14-15
                                      15-16
                                            16-18 17-21 / 17-18 17-33 18-19
   19-20
          20-21
                 20-22
                        21-25
                               22-23
                                      23-24
                                             23-36 24-25
                                                          26-27
                                                                 26-28
   33-35
                              44-46
          43-44
                 43-51
                        44 - 45
                                      47 - 48
normalized bonds :
   48-49 48-53
                49-50
                       50-51
                              51-52
                                      52-53
```

G1:H,S

G2:0,S,[\*1]

chain nodes :

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS
 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom
 25:Atom 26:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS
 33:CLASS 35:CLASS 36:CLASS 43:CLASS 44:CLASS 45:CLASS 46:CLASS
 47:CLASS 48:Atom 49:Atom 50:Atom 51:Atom 52:Atom 53:Atom

Generic attributes :

Type of chain : Linear

Number of Carbon Atoms : less than 7

```
H:\STN queries\10762582x12.str
```

```
10 11
42 43
           12
                13
                   14 15
                           16
                              26
                                   27
                                       28
                                            30
                                                31
                                                   32
                                                       33
                                                           35
                                                                36
                                                                   39
                                                                       40
                                                                           41
ring nodes :
    1 2 3 4
                5
                      7
                           9 17
                                          20 21
                  6
                        8
                                  18
                                      19
                                                  22
                                                      23
                                                          24
                                                              25
                                                                       45
                                                                   44
                                                                           46
    47 48 49
chain bonds :
    2-32 8-10 9-30 10-11 11-12 12-13 13-14 13-43 14-15 15-16
                                                                      16-18
    17-33 23-36 26-27
                       26-28
                              30-31
                                      33-35
                                            39-40 39-47 40-41
                                                                  40-42 43-44
ring bonds :
    1-2 1-6 2-3 3-4 4-5 4-7 5-6
                                     5-9 7-8 8-9 17-21
                                                            17-18
                                                                   18-19
    19-20 20-21 20-22 21-25 22-23 23-24 24-25 44-45 44-49 45-46 46-47
    47 - 48
          48-49
exact/norm bonds :
                                            5-9 7-8 8-9
    1-2 1-6 2-3 2-32
                        3-4 4-5 4-7
                                      5-6
                                                           8-10
                                                                 9-30 10-11
                        13-43 14-15
21-25 22-23
40-41 40-42
    11-12
          12-13
                 13-14
                                      15-16 16-18 17-21
                                                           17-18 17-33 18-19
    19-20
          20-21
                 20-22
                                      23-24
                                             23-36 24-25
                                                           26-27
                                                                  26-28
                 39-47
    33-35
          39-40
                                      43 - 44
normalized bonds :
    44-45 44-49
                 45-46 46-47 47-48 48-49
G1:H,S
G2:0,S,[*1]
```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS

44:Atom 45:Atom 46:Atom 47:Atom 48:Atom 49:Atom

18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 26:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS 35:CLASS 36:CLASS 39:CLASS 40:CLASS 41:CLASS 42:CLASS

42:CLASS

chain nodes :

Match level :

17:Atom

25:Atom 33:CLASS

43:CLASS Generic attributes :

Type of chain : Linear

Number of Carbon Atoms : less than 7

```
H:\STN queries\10762582x13.str
```

```
ring nodes :
                                    18
    1 2 3 4
                          8
                             9
                                17
                                        19
                                            20
                                                 21
                                                     22
                                                         23
                                                             24
                                                                 25
chain bonds :
    2-32 8-10 9-30 10-11 11-12 12-13 13-14 13-43 14-15 15-16
    17-33 23-36 26-27
                         26-28
                                30-31
                                       33-35
ring bonds :
    1-2 1-6
              2-3 3-4 4-5
                             4-7 5-6
                                       5-9 7-8 8-9
                                                        17-21
                                                               17-18
    19-20 20-21 20-22 21-25 22-23
                                       23-24
                                              24-25
exact/norm bonds :
    1-2 1-6 2-3 2-32
                         3-4 4-5 4-7 5-6 5-9 7-8 8-9 8-10 9-30 10-11
                         13-43 14-15
21-25 22-23
                                       15-16 16-18 17-21 17-18 17-33 18-19
23-24 23-36 24-25 26-27 26-28 30-31
    11-12 12-13
                 13-14
    19-20
           20-21
                 20-22
    33-35
G1:H,S
G2:0,S,[*1]
Match level :
    1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom
    10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:CLASS
    17: Atom 18: Atom 19: Atom 20: Atom 21: Atom 22: Atom 23: Atom 24: Atom
    25:Atom 26:CLASS 27:CLASS 28:CLASS 30:CLASS 31:CLASS 32:CLASS 33:CLASS 35:CLASS 36:CLASS 43:CLASS
Generic attributes :
    27:
    Type of chain
                            : Linear
    Number of Carbon Atoms : less than 7
    Type of chain
                            : Linear
```

chain nodes: 10 11 12

13

14

Number of Carbon Atoms : less than 7

15

16

26

27

28

30

31

32

33

35

43